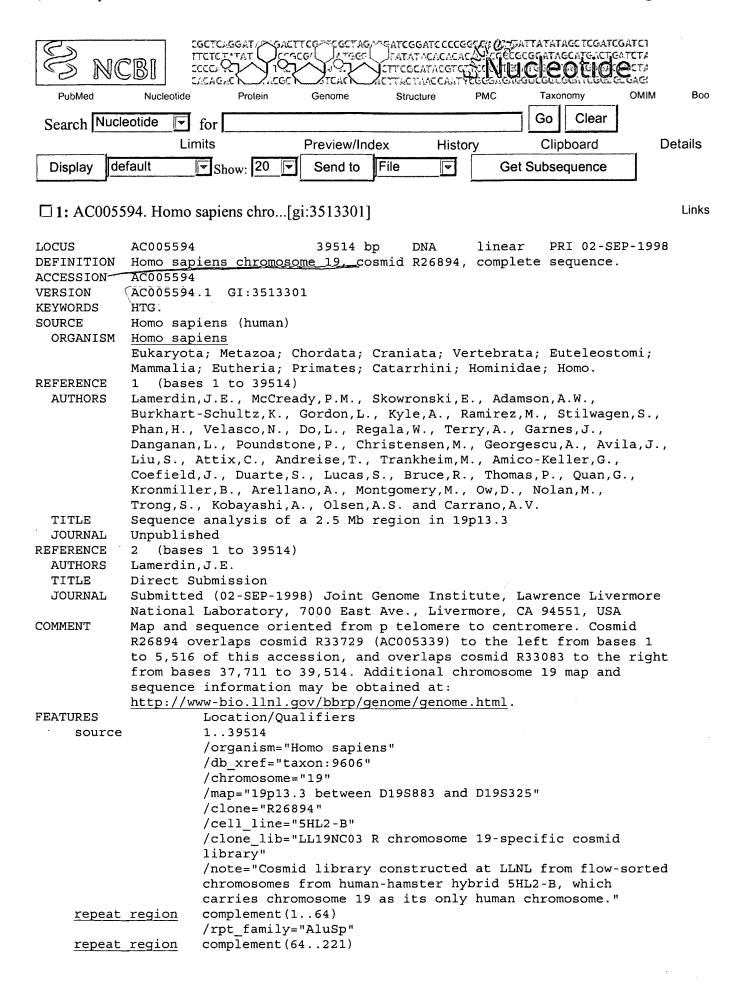


```
AC005594.1:23878..24030, AC005594.1:25064..25210,
                     AC005594.1:26027..26145, AC005594.1:29158..29293,
                     AC005594.1:29971..30123, AC005594.1:35039..35224,
                     AC005594.1:35779...35956, AC005594.1:37973...>38052))"
                     /note="Contains similarity to the prolyl oligopeptidase
                     family."
ORIGIN
        1 ivstqekelv qpfsslfpkv eyiaragawa mfldrpqqwl qlvllppalf ipsteneeqr
       61 lasaravprn vqpyvvyeev tnvwinvhdi fypfpqsege delcflrane cktgfchlyk
      121 vtavlksqgy dwsepfspge geqsltnaiw vneetklvyf qgtkdtpleh hlyvvsyeaa
      181 geivrlttpg fshscsmsqn fdmfvshyss vstppcvhvy klsgpdddpl hkqprfwasm
      241 meaakifhfh trsdvrlygm iykphalqpg kkhptvlfvy ggpqvqlvnn sfkgikylrl
      301 ntlaslgyav vvidgrgscq rglrfegalk ngmgqveied qveglqfvae kygfidlsrv
      361 aihgwsyggf lslmglihkp qvfkvaiaga pvtvwmaydt gyterymdvp ennqhgyeag
     421 svalhveklp nepnrllilh gfldenvhff htnflvsqli ragkpyqlqv alppvspqiy
     481 pnerhsircp esgehyevtl lhflqeyl
//
```

Revised: July 5, 2002.

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Jan 21 2003 18:08:12



```
/rpt family="MER58B"
CDS
                 complement(join(<333..404,1070..1151,5277..5338,
                 8996..9046,10547..10735))
                 /note="Hypothetical partial human protein"
                 /codon start=1
                 /evidence=not experimental
                 /product="R33729 1, partial CDS"
                 /protein id="AAC33800.1"
                 /db xref="GI:3513302"
                 translation="MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRP/
                 GGVVHSFSHNVGPGVRATADKYTCMFTYASQGGTNEQWQMSLGTSEDHQHFTCTIWRP
                 QGKSYLYFTQFKAEVRGAEIEYAMAYSKAAFERESDVPLKTEEFEVTKTA"
repeat region
                 complement (533..828)
                 /rpt family="AluJo"
misc feature
                 complement (1013..1151)
                 /note="predicted exon, program: grail2exons_human_1.3,
                 frame: 0, quality: excellent, score: 89.000"
repeat region
                 complement (1368..1666)
                 /rpt family="AluSx"
                 complement (3323..3445)
repeat region
                 /rpt family="(GGA)n"
                 4376..4725
repeat region
                 /rpt_family="L1MB5"
repeat region
                 4729..4909
                 /rpt_family="AluSg/x"
misc feature
                 5181..5291
                 /note="predicted exon, program: grail2exons human 1.3,
                frame: 2, quality: excellent, score: 79.000"
                complement (5622..5905)
repeat region
                 /rpt_family="AluJb"
                5941..6241
repeat region
                /rpt family="AluY"
                6437..6557
repeat region
                /rpt family="FLAM C"
                6567..6674
repeat region
                /rpt family="L1MD1"
repeat region
                complement (6675..6976)
                /rpt_family="AluSx"
repeat region
                7184..7294
                /rpt_family="AluSq/x"
repeat region
                complement (7298..7450)
                /rpt_family="MLT1E"
                complement (7528..7827)
repeat region
                /rpt_family="AluY"
repeat region
                complement (7829..7972)
                /rpt family="AluSq/x"
repeat region
                8015..8111
                /rpt family="MLT1E"
repeat region
                complement (8116..8312)
                /rpt_family="AluJb"
repeat region
                complement (8327..8594)
                /rpt_family="AluSx"
                8614..8729
repeat region
                /rpt_family="MLT1E"
misc feature
                complement (8996..9046)
                /note="predicted exon, program: grail2exons_human_1.3,
                frame: 0, quality: good, score: 73.000"
                complement (9087..9408)
repeat region
                /rpt_family="AluJo"
                9593..9869
repeat region
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/rpt family="AluSx"
                 9870..9993
repeat region
                 /rpt_family="AluSg/x"
                 complement (10462..10522)
repeat region
                 /rpt_family="GC_rich"
                 complement (10532..10735)
misc feature
                 /note="predicted exon, program: grail2exons human_1.3,
                 frame: 0, quality: excellent, score: 82.000"
                 complement (10919..10962)
repeat region
                 /rpt family="GC rich"
                 complement (11225..11496)
repeat region
                 /rpt family="AluSq"
repeat region
                 11500..11674
                 /rpt_family="L1MD3"
                 11687..11733
repeat region
                 /rpt_family="MIR"
repeat_region
                 12165..12284
                 /rpt family="FLAM C"
                 complement (12302..12399)
repeat region
                 /rpt family="(TA)n"
                 12402..12539
repeat region
                 /rpt family="(TA)n"
                 12542..12575
repeat region
                 /rpt_family="(TA)n"
                 complement (12578..12696)
repeat region
                 /rpt family="(TA)n"
                 12699..12737
repeat region
                 /rpt family="(TA)n"
                 complement (12741..12880)
repeat region
                 /rpt_family="(TA)n"
                 12908..13078
repeat region
                 /rpt family="AluSg/x"
                 13457..13722
repeat region
                 /rpt family="AluJb"
repeat region
                 13735..13879
                 /rpt_family="AluJo"
                 complement (13979..14283)
repeat region
                 /rpt family="AluJb"
                 complement (14311..14589)
repeat region
                 /rpt family="AluJb"
repeat region
                 complement (14602..14689)
                 /rpt_family="FLAM_A"
repeat region
                 complement (14750..15049)
                 /rpt_family="AluJb"
                 complement (15733..15777)
repeat region
                 /rpt_family="POLY_A"
                 complement (16170..16473)
repeat region
                 /rpt family="AluSp"
CDS
                 complement(join(16965..17080,20232..20347,23097..23239,
                 23878..24030,25064..25210,26027..26145,29158..29293,
                 29971..30123,35039..35224,35779..35956,37973..>38052))
                 /note="Hypothetical human protein most similar to protein
                 encoded by AF043699 [Caenorhabditis elegans]; Contains
                 similarity to the prolyl oligopeptidase family"
                /codon start=1
                /evidence=not experimental
               /product="R26984_1"
                 /protein_id="AAC33801.1"
                 /db xref="GI:3513303"
                 /translation="IVSTQEKELVQPFSSLFPKVEYIARAGAWAMFLDRPQQWLQLVL
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                TVWMAYDTGYTERYMDVPENNQHGYEAGSVALHVEKLPNEPNRLLILHGFLDENVHFF
                HTNFLVSQLIRAGKPYQLQVALPPVSPQIYPNERHSIRCPESGEHYEVTLLHFLQEYL
misc feature
                complement (16965..17057)
                /note="predicted exon, program: grail2exons human 1.3,
                frame: 2, quality: excellent, score: 84.000"
                complement (18512..18813)
repeat region
                /rpt family="AluSx"
misc feature
                complement (20236..20347)
                /note="predicted exon, program: grail2exons_human_1.3,
                frame: 1, quality: excellent, score: 100.000"
                20399..20656
repeat region
                /rpt family="AluSg"
                20658..20824
repeat region
                /rpt family="AluJo/FRAM"
                20835..21056
repeat region
                /rpt family="AluJo"
                21077..21373
repeat region
                /rpt_family="AluSx"
                21472..21511
repeat region
                /rpt family="MER33"
                21550..21658
repeat region
                /rpt_family="L1MB5"
                complement (21723..21947)
repeat region
                /rpt_family="AluSg/x"
                complement (21967..22233)
repeat region
                /rpt family="AluSx"
repeat region
                complement (22246..22548)
                /rpt_family="AluY"
                complement (23097..23239)
misc feature
                /note="predicted exon, program: grail2exons_human_1.3,
                frame: 0, quality: excellent, score: 100.000"
repeat region
                complement (23519..23571)
                /rpt family="GC rich"
misc feature
                complement (23874..24030)
                /note="predicted exon, program: grail2exons_human_1.3,
                frame: 1, quality: excellent, score: 100.000"
                24225..24314
repeat region
                /rpt_family="MIR"
repeat region
                24670..24803
                /rpt family="MLT1A1"
misc feature
                complement (25064..25210)
                /note="predicted exon, program: grail2exons human 1.3,
                frame: 0, quality: excellent, score: 99.000"
misc feature
                complement (26027..26145)
                /note="predicted exon, program: grail2exons_human_1.3,
                frame: 0, quality: excellent, score: 97.000"
repeat region
                complement (26342...26437)
                /rpt family="AluJo"
repeat region
                complement (26550..26716)
                /rpt family="AluSx"
                complement (26720..27020)
repeat region
                /rpt_family="AluSx"
                complement (27022..27103)
repeat region
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/rpt family="AluSx"
                      27189..27343
     repeat region
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                      complement (28205..28496)
     repeat region
                      /rpt_family="AluY"
                      complement (28511..28806)
     repeat region
                      /rpt family="AluJo"
                      complement (29158..29293)
     misc feature
                      /note="predicted exon, program: grail2exons_human_1.3,
                      frame: 0, quality: excellent, score: 88.000"
     repeat region
                      complement (29442...29496)
                      /rpt_family="MIR"
                      complement (29971..30123)
     misc feature
                      /note="predicted exon, program: grail2exons human 1.3,
                      frame: 1, quality: excellent, score: 100.000"
                      complement (31138..31229)
     repeat region
                      /rpt family="(CA)n"
     repeat region
                      31604..31893
                      /rpt family="AluJo"
                      complement (32075..32378)
     repeat region
                      /rpt family="AluSq"
                      complement (32403..32519)
     repeat region
                      /rpt family="AluJb"
                      33479..33615
     repeat region
                      /rpt_family="MER20"
     repeat region
                      33630..34021
                      /rpt family="LINE2"
     repeat region
                      34133..34563
                      /rpt_family="LINE2"
                      34597..34814
     repeat region
                      /rpt_family="MER58A"
                      complement (35062..35224)
     misc feature
                      /note="predicted exon, program: grail2exons human 1.3,
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                      35267..35569
     repeat region
                      /rpt family="AluJo"
     misc feature
                      complement (35779..36009)
                      /note="predicted exon, program: grail2exons_human_1.3,
                      frame: 1, quality: excellent, score: 87.000"
     repeat region
                      complement (36303..36601)
                      /rpt_family="AluSq"
                     36743..36877
     repeat region
                      /rpt family="FLAM C"
                     36882..37165
     repeat region
                      /rpt_family="AluSc"
     repeat region
                     37316..37511
                      /rpt family="AluJo"
                     complement (37951..38052)
     misc feature
                      /note="predicted exon, program: grail2exons human 1.3,
                     frame: 1, quality: excellent, score: 87.000"
                     38134..38475
     repeat region
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                     38871..39167
     repeat region
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                     39278..39514
     repeat region
                     /rpt family="AluY"
BASE COUNT
               8679 a 11209 c 10678 g
                                           8948 t
ORIGIN
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       61 ctaagataaa gttctagtgg cacacagcca cacccacgca tggacatact gtctgcagca
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```
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 181 ttgacgaggt ggcctttata gaatcagttt gtggatgcct ggtctacagt ctccaggacc
 241 cetatggetg accecetet ccaaactgce eegattgeec accettggat gggggtggeg
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 421 ggaaacttta ccagggccag ttcaatgctc atcattagga aaacgattga gtttgctttc
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